Datasheet for ABIN950555

anti-ATP5G1 antibody (Middle Region)

1 Image

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Overview

Quantity:	0.4 mL
Target:	ATP5G1
Binding Specificity:	AA 26-56, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5G1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 26-56 amino acids from the Central region of human ATP5G1
Isotype:	Ig Fraction
Specificity:	This antibody reacts to ATP synthase proteolipid P1.
Cross-Reactivity (Details):	Species reactivity (tested):Human and Mouse.
Purification:	Affinity chromatography on Protein A

Target Details

Target:	ATP5G1
Alternative Name:	ATP Synthase Proteolipid P1 (ATP5G1 Products)

Target Details

Background:	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified.Synonyms: ATP5G1, ATPase protein 9, ATPase subunit c, mitochondrial ATP synthase lipid-binding protein
Gene ID:	516
NCBI Accession:	NP_001002027
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) sodium azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Western Blotting

Image 1. ATP5G1 Antibody (Center) western blot analysis in mouse liver tissue lysates (35µg/lane).This demonstrates the ATP5G1 antibody detected the ATP5G1 protein (arrow).